

## VOLUME IMAGING SYSTEM

## ABSTRACT OF THE DISCLOSURE

A volume imaging system which progressively constructs, analyzes, and updates three dimensional models while acquiring cross-sectional data is described. The system constructs and displays three-dimensional renderings, and performs quantitative calculations in real time during the imaging system data collection process, displays interactive three-dimensional renderings in a traditional post-data collection process, as well as prescribes, archives, films, and transmits rendering procedures, parameters, renderings, measurements, and processed data, during data collection and post-acquisition.

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